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Internal energy - Temperature - Amount of heat

- 44 The internal energy of a body is equal to
- (a) the average kinetic energy of the body's molecules
 - (b) the average potential energy of the body's molecules
 - (c) the difference between the kinetic energies of the body's molecules and their potential energies
 - (d) the sum of the kinetic energies of the body's molecules and their potential energies

- 45 The thermal energy that is transferred from hot bodies to cold bodies is called
- (a) temperature
 - (b) specific heat
 - (c) amount of heat
 - (d) internal energy

- 46 Which pair of the following physical quantities have the same unit of measurement?
- (a) Amount of heat and temperature.
 - (b) Specific heat and temperature.
 - (c) Amount of heat and internal energy.
 - (d) Internal energy and temperature.

- 47 When heating a quantity of water from 10°C to 20°C, then

	The amplitude of water molecules vibrations	The internal energy of water
(a)	Decreases	Increases
(b)	Increases	Doesn't change
(c)	Increases	Increases
(d)	Doesn't change	Decreases

- 48 The absolute zero is equivalent to

- (a) 0°C
- (b) -273°C
- (c) 273 K
- (d) 373 K

- 49 The opposite figure represents corresponding values of temperature on Kelvin and Celsius scales, what are the values of temperature X and Y, respectively?

- (a) 300 K, 30°C
- (b) 327 K, 30°C
- (c) 200 K, 77°C
- (d) 327 K, 77°C

